

IN THE ABSTRACT

In response to the Notice to File Missing Parts of Nonprovisional Application Under 37 C.F.R. §1.53, mailed February 2, 2004, a replacement Abstract is submitted herewith on a separate page.

ABSTRACT OF THE DISCLOSURE

A pneumatically operated egg injection machine includes a pair of in line parallel tracks through an injection section and a transfer section in series. An injection assembly over one parallel track includes a plurality of injectors which inject vaccine into multiple eggs at one time and a high precision vaccine delivery system (HPVDS) which meters prescribed vaccine dosages to the injecting needles of the injectors. The HPVDS includes a valve distribution manifold having a dosage chamber associated with each injector. The dosage chambers are simultaneously operated by pneumatic pressure to deliver precisely the same vaccine dose to each injected egg.